

Title (en)

Multi-cavity melt distribution manifold

Title (de)

Schmelzeverteilerblock für mehrere Formhöhlungen

Title (fr)

Bloc de distribution de matière fondue pour des cavités multiples

Publication

EP 0491332 B1 19960327 (EN)

Application

EP 91121551 A 19911216

Priority

CA 2032396 A 19901219

Abstract (en)

[origin: EP0491332A2] An injection molding manifold for distributing pressurized melt from a common inlet to thirty two outlets. The steel manifold has rear and forward plate portions which are integrally brazed together. The rear portion is drilled and plugged along a first transverse plane to provide the melt passage with branches from a common inlet portion to four intermediate portions. Four sets of matching grooves are machined in the joining faces of the rear and forward portions whereby each intermediate portion of the melt passage in turn branches along a second transverse plane to eight outlet portions, each leading to a cavity. The combination of the melt passage branching in several different directions in two different transverse planes with the second plane having different sets of curved portions allows the melt passage to have a large number of outlets while still having smoothly curved bends without having a leakage problem. <IMAGE>

IPC 1-7

B29C 45/27; **B29C 45/30**

IPC 8 full level

B29C 45/00 (2006.01); **B29C 45/26** (2006.01); **B29C 45/27** (2006.01); **B29C 45/30** (2006.01)

CPC (source: EP)

B29C 45/2725 (2013.01); **B29C 45/30** (2013.01)

Cited by

CN114536677A; EP0583641A1; EP3741538A1; GB2272664A; GB2272664B; US11833725B2; WO9743105A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0491332 A2 19920624; **EP 0491332 A3 19921119**; **EP 0491332 B1 19960327**; AT E135956 T1 19960415; CA 2032396 A1 19920620; CA 2032396 C 20020625; DE 4141515 A1 19920625; DE 69118336 D1 19960502; DE 69118336 T2 19960808; DK 0491332 T3 19960812; ES 2084758 T3 19960516; JP 3088533 B2 20000918; JP H0623798 A 19940201

DOCDB simple family (application)

EP 91121551 A 19911216; AT 91121551 T 19911216; CA 2032396 A 19901219; DE 4141515 A 19911216; DE 69118336 T 19911216; DK 91121551 T 19911216; ES 91121551 T 19911216; JP 33350991 A 19911217